



Designation: D8584 – 24

Standard Guide for Testing of Preformed Thermoplastic Pavement Marking Material in the Laboratory and Installed Preformed Thermoplastic Pavement Markings in the Field¹

This standard is issued under the fixed designation D8584; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 In this guide, the user is informed which chemical and physical properties of preformed thermoplastic pavement markings are appropriate to be evaluated in the laboratory for determining quality and consistency with the appropriate sampling, sample preparation, and test methods to be used to make these evaluations.

1.2 In this guide, the user is informed which properties of installed, in-service preformed thermoplastic pavement markings are appropriate to evaluate with relevant test methods and sampling protocols.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

C219 Terminology Relating to Hydraulic and Other Inorganic Cements

C501 Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser
D8 Terminology Relating to Materials for Roads and Pavements
D16 Terminology for Paint, Related Coatings, Materials, and Applications
D36/D36M Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester
D256 Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
D522/D522M Test Methods for Mandrel Bend Test of Attached Organic Coatings
D570 Test Method for Water Absorption of Plastics
D638 Test Method for Tensile Properties of Plastics
D713 Practice for Conducting Road Service Tests on Fluid Traffic Marking Materials
D792 Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
D913 Practice for Evaluating Degree of Pavement Marking Line Wear
D1308 Test Method for Effect of Household Chemicals on Clear and Pigmented Coating Systems
D1729 Practice for Visual Appraisal of Colors and Color Differences of Diffusely-Illuminated Opaque Materials
D1925 Test Method for Yellowness Index of Plastics (Withdrawn 1995)³
D2240 Test Method for Rubber Property—Durometer Hardness
D2244 Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
D2792 Practice for Solvent and Fuel Resistance of Traffic Paint
D4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
D4451 Test Method for Pigment Content of Paints by

¹ This guide is under the jurisdiction of ASTM Committee **D01** on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee **D01.44** on Traffic Coatings.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.